Friday, 5/25/2007 8:16:43 AM

Kim Johnston

Process Sheet

Customer Job Number

: CU-DAR001 Dart Helicopters Services

: 32583 : 10327

Estimate Number

P.O. Number

This Issue

AJ4: : 5/25/2007

S.O. No. : NA

: NC : NA

: 30556

Type

: MACHINED PARTS

Part Number **Drawing Number**

Drawing Name

Project Number **Drawing Revision**

Material Due Date

: BLADE

: D2741 D2741 REV C

: N/A

: NA : 6/10/2007

30 Um:

Written By

Prsht Rev.

First Issue

Previous Run

Checked & Approved By

Comment

00.11.15

Removed P/O turning - in house

process EC

Est Rev: E

06-03-20

As Per Rev C

JLM

Est Rev: F

06.04.20 Added grinding after heat treating

Additional Product

Job Number:



Seq. #:

Machine Or Operation:

Description: 4130 Bar 0.5 x 3.0"

Comment: Qty.:

1.2118 f(s)/Unit Total: 4130 BAR 0.5 x 3.0"

Material: 4130 steel bar 0.50" x 3.00"

36.3542 f(s)

Batch: M102647 X5

MIO1314 X 7 JF. 07/06/18

2.0

BAND SAW



Comment: BAND SAW

Cut blanks 13.850" long +0.063" -0.000"

HAAS CNC VERTICAL MACHINING #1

3.0



Comment: HAAS CNC VERTICAL MACHINING #1 1-Machine per folio FA108

SA 136 07.06.19

Dart Aerospace Ltd

W/O:		WORK ORDER CH	IANGES				
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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, d' •							
Part No	:	PAR #: Fault Category:	NCR: Yes	No DQ	A :	_ Date: _	
			QA:	N/C Close	d:	_ Date: _	

NCR: WORK ORDER NON-CONFORMANCE (NCR)								
		Description of NC	Corrective Action Section B			Verification	A	Ammassal
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector
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NOTE: Date & initial all entries

Friday, 5/25/200/ 8:16:44 AM Date: Kim Johnston **Process Sheet** Ųser: Customer: CU-DAR001 Dart Helicopters Services Drawing Name: BLADE Job Number: 32583 Part Number: D2741 Job Number: Description: Seq. #: Machine Or Operation: INSPECT PARTS AS THEY COME OFF MACHINE 4.0 QC2 То Comment: INSPECT PARTS AS THEY COME OFF MACHINE SECOND CHECK QC8 5.0 Comment: SECOND CHECK SMALL & MEDIUM FAB RESOURCE 1 SMALL FAB 1 Comment: SMALL & MEDIUM FAB RESOURCE 1 1-Deburr SAD 07/06/29 2-Bend per Dwg D2741 7.0 WORK TO CURRENT STEP **OUTSIDE SERVICES-MACH** 8.0 **OUTSIDE SERV.30** CL07/07/03 Comment: Sub-Contracting PURCHASING 4084 Issue P/O: Harden material as per Dwg D2741 Min. Ultimate Tensile Strength = 152 ksi (30-40 HRC) Min. Yield Tensile Strength = 141 ksi Test report or Certification required PACKAGING 1 PACKAGING RESOURCE #1 9.0 Comment: PACKAGING RESOURCE #1 Receive and Inspect for transit damage Ensure Test report or Certification attached INSPECT WORK TO CURRENT STE 10.0 QC5 courte Comment: INSPECT WORK TO CURRENT STEP SMALL FAB 1 SMALL & MEDIUM FAB RESOURCE 1 11.0 Comment: SMALL & MEDIUM FAB RESOURCE 1 Grind off carbon deposits

Page 2

Form: mrocess

Dart Aerospace Lt

W/O:	WORK ORDER CHANGES						
DATE			Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No:	PAR #: _	Fault Category:	NCR: Yes No DQA:	Date: CAKEVO
			QA: N/C Closed:	Date:

NCR:			WORK ORDER NON-CONFORMANCE (NCR)						
		Description of NC	Corrective Action Section B			Verification	Approval		
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector	
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NOTE: Date & initial all entries

Friday, 5/25/2007 8:16:44 AM Date: Kim Johnston User: **Process Sheet** Drawing Name: BLADE Customer: CU-DAR001 Dart Helicopters Services Job Number: 32583 Part Number: D2741 Job Number: Description: Seq. #: Machine Or Operation: POWDER COATING 12.0 POWDER COATING 10 5068 Comment: POWDER COATING Powder Coat White Gloss (Ref. 4.3.5.2) as per QSI 005 4.3 13.0 COAT/CHEMICAL CONVERSION PACKAGING RES 14.0 PACKAGING 1 Comment: PACKAGING RESOURCE #1 Identify and Stock Location: 15.0 QC21 Comment: FINAL INSPECTION/W/O RELEASE Job Completion



D	art	Ae	ros	pace	Ltd

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N/O:		√ • •		K ORDER CHANGE	S			
DATE	STEP	PRO	OCEDURE CHANG	E	Ву	Date Qt	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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				•				
Part No	•	PAR #:	Fault Categor	y:	NCR: Yes	No DQA:	Date: _	
					QA: N	/C Closed:	Date: _	
NCR:	·	· \	WORK ORDER	NON-CONFORMAL	NCE (NCF	()		
		Description of NC	Co	rrective Action Section	ı B	Verificatio	n Approval	Approval
DATE	STEP	Section A	Initial	Action Description	Sign &	Section C	Chief Eng	QC Inspector

NCR:		∖ W(ORK OR	DER NON-CONFORMANC	E (NCR)			
· · · · · · · · · · · · · · · · · · ·		Description of NC		Corrective Action Section B			Ammerical	A
DATE ST	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Verification Section C	Approval Chief Eng	Approval QC Inspecto
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NOTE: Date & initial all entries

DART AEROSPACE LTD	Work Order:	32583
Description: Blade	Part Number:	D2741
Inspection Dwg: D2741 Rev: C		Page 1 of 1

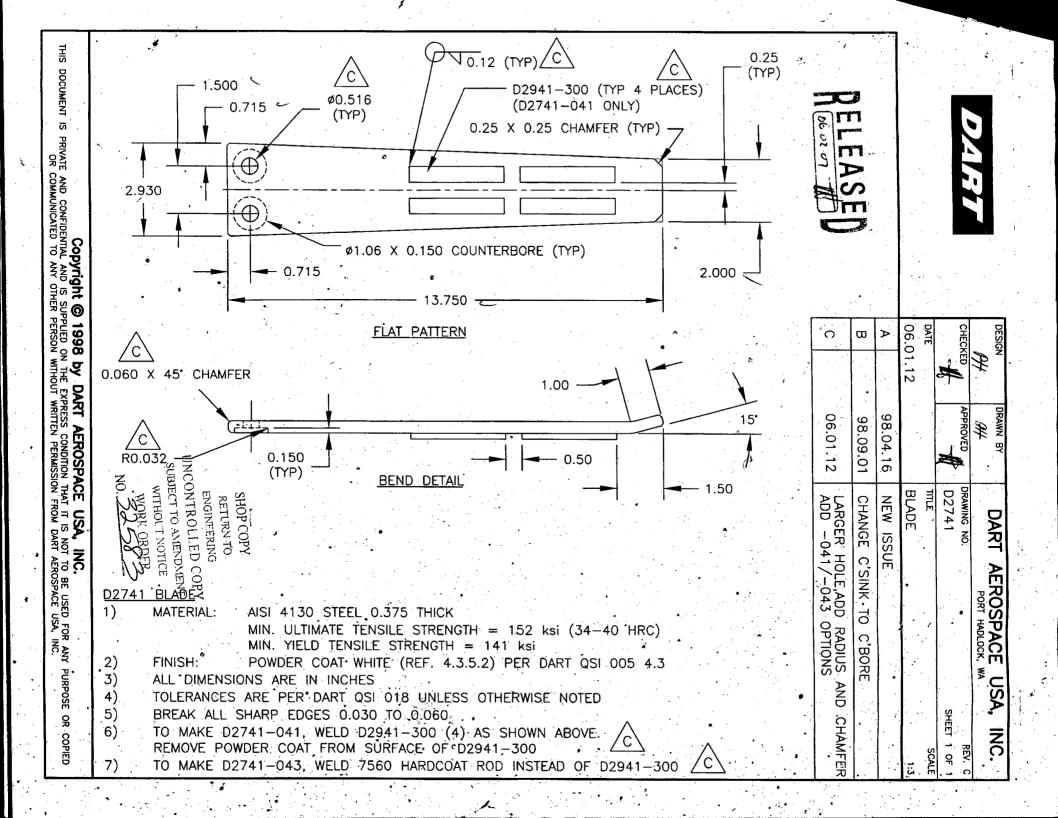
FIRST ARTICLE INSPECTION CHECKLIST

X	First Article	Prototype
1		 J •

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
1.500	+/-0.010	1,503"				
0.715	+/-0.010	71				
Ø0.516	+0.008/-0.001	Ø, 520°				
2.000	+/-0.010	2 200"				-
13.750	+/-0.010	13,750"	V			
Ø1.06 x 0.150	+0.012/-0.001 x +/-0.010	81.060X0.19	15			
2.930	+/-0.010	2.935"				
0.375	+/-0.010	,372				
-0.25 x 0.25	+/-0.030	25 x 25	" 1			
,060"x45°	± 010"	.052"				
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Measured by:	Audited by:	Inl	Prototype Approval:	N/A
Date: 07/06/19	Date:	07/02/03	Date:	N/A

Rev	Date	Change	Revised by	Approved
Α	03,12.22	New Issue	KJ/RF	1
В	06.03.09	Revised per Rev. C	KJ/JLM	
<u> </u>	· · · · · · · · · · · · · · · · · · ·		-,0	. / /





RELEASE NOTE

GST No.: R105468102

OAK 88833-1

D OFFICE /1 5 PEERS ROAD, OAKVILLE, ONTARIO JANAI A L6L 2X5 TEL: (505) 827-4171 FAX: (905) 827-7489 2009 WYECROFT ROAD, UNIT B Oakville, Ontario Canada L6I 6J4

Tel.: (514) 334-4240 FAX: (514) 334-6269 TEL: (905) 827-7377 FAX: (905) 827-1380

QUEBEC DIVISION 7450 RUE VÉRITÉ STREET, ST. LAURENT, QUÉBEC CANADA H4S 1C5

07/10/2007

MM / DD / YYYY

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PAGE:

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_L TO:

IART AEROSPACE LTD.

1270 ABERDEEN ST. ! AWKESBURY, ON

SHIP TO: DART AEROSPACE LTD. 1270 ABERDEEN ST.

HAWKESBURY, ON

1.1744

16A 1K7

K6A 1K7

DATE SHIPPED	SHIP VIA	F.O.B.
07/10/2007		ORIGIN
CUSTOMER P/O No.	JOB No.	TERMS
(10004084		COD

TEST RESULTS DESCRIPTION иом PART No. 30 30 B 32583 D2741 Procedure: 4161 Process Specifications: HARDENED PER DWG. D2741 TO 152 KSI MINIMUM 100% HARDNESS TESTED PER ASTM E-18, HRC: MATERIAL: 4130 30 pso

100% HARDNESS TESTED HRC

I hereby certify that the material covered by this release note has been inspected and tested and conforms to all specifications relevant thereto in accordance with the conditions of the contract / or purchase order.

ON BEHALF OF VAC AERO INTERNATIONAL INC.





